

Listă de lucrări

I. Listă lucrări relevante

- **(Ris) Gall, M., Dumitrescu, O., Drăgan, V., & Crunțeanu, D. E.** (2024). Effects of Perforated Plates on Shock Structure Alteration for NACA0012 Cascade Configurations. *Inventions*, 9(5), 110, <https://doi.org/10.3390/inventions9050110>; WOS:001340920700001, ISSN: 2411-5134, IF 1.9
- **(Ris) Gall, M., Dumitrescu, O., Drăgan, V., & Crunțeanu, D. E.** (2024). Effects of Perforated Plates on Shock Structure Alteration for NACA0012 Airfoils. *Inventions*, 9(2), 28, <https://doi.org/10.3390/inventions9020028>; WOS:001210107500001, ISSN: 2411-5134, IF 1.9
- **(Ris) Gall, M., Drăgan, V., Dumitrescu, O., Prisăcariu, E. G., Condruz, M. R., Paraschiv, A., Petrescu, V., & Vlăduț, M.** (2024). Design, Fabrication, and Commissioning of Transonic Linear Cascade for Micro-Shock Wave Analysis. *Journal of Manufacturing and Materials Processing*, 8(5), 201, <https://doi.org/10.3390/jmmp8050201>; WOS:001340893800001, ISSN: 2504-4494, IF 3.3
- **(Ris) Dumitrescu, O., Gall, M., & Drăgan, V.** (2023). A Three-Dimensional Design to Study the Shock Waves of Linear Cascade with Reduced Mass Flow Requirements. *Applied Sciences*, 13(19), 11029, <https://doi.org/10.3390/app131911029>; WOS:001114360800001, ISSN: 2076-3417, IF 2.5
- **(Ris) Drăgan, V., Dumitrescu, O., Gall, M., Prisăcariu, E. G., & Gherman, B.** (2024). Experimental Identification of a New Secondary Wave Pattern in Transonic Cascades with Porous Walls. *Aerospace*, 11(11), 946, <https://doi.org/10.3390/aerospace11110946>; WOS:001363587000001, ISSN: 2226-4310, IF 2.2
- **(Ris) Cojoccea, A.V., Porumbel, I., Gall, M. and Cuciuc, T.,** 2024. Experimental Thrust and Specific Impulse Analysis of Pulsed Detonation Combustor. *Applied Sciences*, 14(14), p.5999, <https://doi.org/10.3390/app14145999> , WOS:001276744300001, ISSN: 2076-3417, IF 2.5
- **(Ris) Cojoccea, A.V., Porumbel, I., Gall, M. and Cuciuc, T.,** 2024. Experimental Investigations on the Impact of Hydrogen Injection Apertures in Pulsed Detonation Combustor. *Energies*, 17(19), p.4918, <https://doi.org/10.3390/en17194918> , WOS:001332231200001, ISSN: 1996-1073, IF 3.2
- **(Ris) Cojoccea, A.V., Gall, M., Vrabie, G.I., Cuciuc, T., Porumbel, I., Ursescu, G. and Crunțeanu, D.E.,** 2024. Experimental Study on Ignition and Pressure-Gain Achievement in Low-Vacuum Conditions for a Pulsed Detonation Combustor.

Technologies, 12(12), p.252, <https://doi.org/10.3390/technologies12120252> , WOS:001383722800001, ISSN: 2227-7080, IF 3.6

- **(Ris)** Bogoi, A., Cuciuc, T., Cojoccea, A.V., **Gall, M.**, Porumbel, I. and Hritcu, C.E., 2024. Experimental Pressure Gain Analysis of Pulsed Detonation Engine. *Aerospace*, 11(6), p.465, <https://doi.org/10.3390/aerospace11060465> , WOS:001254686900001, ISSN: 2226-4310, IF 2.2
- **(Ris)** Cican, G., **Gall, M.**, Bogoi, A., Deaconu, M., Crunțeanu, D.E. (2023) Experimental Investigation of a Micro Turbojet Engine Chevrons Nozzle by Means of the Schlieren Technique. *Inventions*, 8, 145, <https://doi.org/10.3390/inventions8060145>; WOS:001130908000001, ISSN: 2411-5134, IF 1.9

II. Teza de doctorat

- **(T) M. Gall**, Numerical and experimental contributions on perforated plate passive flow control technique applied to vaned diffusers for microgas turbines, Școala Doctorală de Inginerie Aerospațială, UNST POLITENICA București, 2025, Conducător; Prof. dr. ing. Daniel-Eugeniu Crunțeanu

III. Listă completă publicații

- **(Ris)** Bogoi, A., Cican, G., **Gall, M.**, Totu, A., Crunțeanu, D.E., Levențiu, C. (2025) Comparative Study of Noise Control in Micro Turbojet Engines with Chevron and Ejector Nozzles Through Statistical, Acoustic and Imaging Insight. *Applied Sciences*, 15, 394, <https://doi.org/10.3390/app15010394>; WOS:001393489200001, ISSN: 2076-3417, IF 2.5
- **(Rio)** Cojoccea, A.V., **Gall, M.**, Porumbel, I., Vrabie, G., Cuciuc, T., and Crunțeanu, D.E., 2025. Experimental Analysis of Operating Frequency Enhancement and Pressure Characteristics in a Pulsed Detonation Combustor, In Turbo Expo, 88780, p. V03AT04A042, American Society of Mechanical Engineers, <https://doi.org/10.1115/GT2025-152698> , ISBN: 978-0-7918-8878-0
- **(Rio)** Cojoccea, A.V., Cuciuc, T., Porumbel, I., **Gall, M.**, Gherman, B. and Crunțeanu, D.E., 2022. Experimental Investigations of Hydrogen Fuelled Pulsed Detonation Combustor. In Turbo Expo: Power for Land, Sea, and Air, 86007, p. V03BT04A020, American Society of Mechanical Engineers, <https://doi.org/10.1115/GT2022-82393> , WOS:001215894300020, ISBN: 978-0-7918-8600-7
- **(Ris) Gall, M.**, Dumitrescu, O., Drăgan, V., Gherman, B., & Crunțeanu, D. E. (2023, October). Effects of Perforated Plates on the Performance of Vaned Diffusers for Microgas Turbines. In *2023 11th International Conference on ENERGY and ENVIRONMENT (CIEM)* (pp. 1-5). IEEE, <https://doi.org/10.1109/CIEM58573.2023.10349776>, ISBN:979-8-3503-4078-5, Indexat

- **(Rno) Gall, M.,** Drăgan, V. (2022) Vaned Diffuser Numerical Investigation for Microjet Engine, *Scientific Journal TURBO*, vol. IX (2022), no. 1, https://comoti.ro/wp-content/uploads/2022/12/11.Scientific-Journal-Turbo-Vol-IX_1_2022.pdf, ISSN (online): 2559-608X
- **(Ris) Gall, M.,** Dumitrescu, O., Drăgan, V., & Crunțeanu, D. E. (2024). Effects of Perforated Plates on Shock Structure Alteration for NACA0012 Cascade Configurations. *Inventions*, 9(5), 110, <https://doi.org/10.3390/inventions9050110>; WOS:001340920700001, ISSN: 2411-5134, IF 1.9
- **(Ris) Gall, M.,** Dumitrescu, O., Drăgan, V., & Crunțeanu, D. E. (2024). Effects of Perforated Plates on Shock Structure Alteration for NACA0012 Airfoils. *Inventions*, 9(2), 28, <https://doi.org/10.3390/inventions9020028>; WOS:001210107500001, ISSN: 2411-5134, IF 1.9
- **(Ris) Gall, M.,** Drăgan, V., Dumitrescu, O., Prisăcariu, E. G., Condruz, M. R., Paraschiv, A., Petrescu, V., & Vlăduț, M. (2024). Design, Fabrication, and Commissioning of Transonic Linear Cascade for Micro-Shock Wave Analysis. *Journal of Manufacturing and Materials Processing*, 8(5), 201, <https://doi.org/10.3390/jmmp8050201>; WOS:001340893800001, ISSN: 2504-4494, IF 3.3
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- **(Ris) Drăgan, V., Dumitrescu, O., Gall, M.,** Prisăcariu, E. G., & Gherman, B. (2024). Experimental Identification of a New Secondary Wave Pattern in Transonic Cascades with Porous Walls. *Aerospace*, 11(11), 946, <https://doi.org/10.3390/aerospace11110946>; WOS:001363587000001, ISSN: 2226-4310, IF 2.2
- **(Ris) Cojoccea, A.V., Porumbel, I., Gall, M. and Cuciuc, T.,** 2024. Experimental Thrust and Specific Impulse Analysis of Pulsed Detonation Combustor. *Applied Sciences*, 14(14), p.5999, <https://doi.org/10.3390/app14145999> , WOS:001276744300001, ISSN: 2076-3417, IF 2.5
- **(Ris) Cojoccea, A.V., Porumbel, I., Gall, M. and Cuciuc, T.,** 2024. Experimental Investigations on the Impact of Hydrogen Injection Apertures in Pulsed Detonation Combustor. *Energies*, 17(19), p.4918, <https://doi.org/10.3390/en17194918> , WOS:001332231200001, ISSN: 1996-1073, IF 3.2
- **(Ris) Cojoccea, A.V., Gall, M.,** Vrabie, G.I., Cuciuc, T., Porumbel, I., Ursescu, G. and Crunțeanu, D.E., 2024. Experimental Study on Ignition and Pressure-Gain Achievement in Low-Vacuum Conditions for a Pulsed Detonation Combustor.

Technologies, 12(12), p.252, <https://doi.org/10.3390/technologies12120252> , WOS:001383722800001, ISSN: 2227-7080, IF 3.6

- **(Ris)** Bogoi, A., Cuciuc, T., Cojoclea, A.V., **Gall, M.**, Porumbel, I. and Hritcu, C.E., 2024. Experimental Pressure Gain Analysis of Pulsed Detonation Engine. Aerospace, 11(6), p.465, <https://doi.org/10.3390/aerospace11060465> , WOS:001254686900001, ISSN: 2226-4310, IF 2.2
- **(Ris)** Cican, G., **Gall, M.**, Bogoi, A., Deaconu, M., Crunțeanu, D.E. (2023) Experimental Investigation of a Micro Turbojet Engine Chevrons Nozzle by Means of the Schlieren Technique. *Inventions*, 8, 145, <https://doi.org/10.3390/inventions8060145>; WOS:001130908000001, ISSN: 2411-5134, IF 1.9

IV. Proiecte

- **(Pn)** PN-III-CERC-CO-PED-3-2021 PED call for proposals (Experimental Demonstration Programme) by the Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) “Operating range augmentation system through porous walls for centrifugal compressors”, acronym SPACELESS, grant no. 717PED/2022 – membru în echipa de cercetare
- **(Pi)** ESA – BOOSTED 4000148381/25/NUGLC/lfa, Boosting Space Travel with Predictable, High-Efficiency Detonation Engines – membru în echipa de cercetare
- **(Pi)** ESA – PDT ESA-4000131302/20/NL/MG, Developing of a Pulse Detonation Thruster – membru în echipa de cercetare
- **(Pi)** ESA – RDE 4000138669/22/NL/MG, Feasibility Assessment of Rotational Detonation Engine – membru în echipa de cercetare
- **(Pn)** PN-IV-P7-7.1-PED-2024-2188 apel de proiect PED (Proiect Experimental Demonstrativ) finanțat de Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI): “Optimizarea Tracțiunii Motorului cu Detonație Prin Integrarea unui Ajutaj de Reacție (DETONATE), grant numărul 105PED/2024 – membru în echipa de cercetare
- **(Pn)** PN-IV-PCB-RO-MD-2024-0157 - Analiza performanței aerodinamice și reducerea zgomotului pentru profile aerodinamice utilizând controlul pasiv al fluxului prin plăci perforate și bord de fuga zimțat, membru în echipa de cercetare

Link Google Scholar:

<https://scholar.google.com/citations?user=MNfNG8AAAAAJ&hl=ro>

Întocmit,

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